

# ViewSonic®

## *P95f*

## *Color Monitor*



*With Plug & Play<sup>™</sup>*

**19" (18" Viewable Diagonal)**

**User Guide**

**Guide de l'utilisateur**

**Bedienungsanleitung**

**Guía del usuario**

**Guida dell'utente**

**Guia do usuário**

**Användarhandbok**

**Руководство пользователя**

**Podręcznik użytkownika**

**ユーザースガイド**

**使用手冊**

**使用手冊**

**사용자 안내서**

**دليل المستخدم**

# Contents

Electronic Warranty Registration .....	2
For Your Records .....	2

## Getting Started

Package Contents .....	3
Precautions .....	3
Quick Installation .....	4

## Using the Monitor

Setting the Timing Mode .....	5
Adjusting the Screen Image .....	6

## Other Information

Specifications .....	11
Troubleshooting .....	12
Customer Support .....	13
Cleaning the Monitor .....	14
Limited Warranty .....	15

## Appendix

Power Cord Safety Guidelines .....	16
FCC Information .....	17

Copyright © ViewSonic Corporation, 2000. All right reserved.

Macintosh and Power Macintosh are registered trademarks of Apple Computer, Inc.

Microsoft, Windows, Windows NT, and the Windows logo are registered trademarks of Microsoft Corporation in the United States and other countries.

ViewSonic, the three birds logo, OnView, ViewMatch, and ViewMeter are registered trademarks of ViewSonic Corporation.

VESA is a registered trademark of the Video Electronics Standards Association. DPMS and DDC are trademarks of VESA.

ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency (EPA).

As an ENERGY STAR® partner, ViewSonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Disclaimer: ViewSonic Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use this product.

In the interest of continuing product improvement, ViewSonic Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic Corporation.

## Electronic Warranty Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your monitor's warranty on the Internet at:

<http://www.viewsonic.com>

### For Your Records

<b>Product Name:</b>	<b>ViewSonic P95f</b>
<b>Model Number:</b>	<b>VCDTS21682-1</b>
<b>Document Number:</b>	<b>P95f_UG_55</b>
<b>Serial Number:</b>	_____
<b>Purchase Date:</b>	_____

# Getting Started

Congratulations on your purchase of a ViewSonic P95f color monitor.

**Important!** *Save the original box and all packing material for future shipping needs.*

**NOTE:** The word “Windows” in this user guide refers to the following Microsoft operating systems: Windows ‘95, Windows ‘98, Windows 2000, Windows NT.

**NOTE:** This product was designed for operation in the magnetic fields of the hemisphere where it was purchased.

## Package Contents

Your P95f package includes:

- P95f monitor
- DB-15 video cable
- Power cord
- Setup Guide
- Viewsonic Wizard CD-ROM (including User Guide PDF files and **INF/ICM** Display Optimization files)

**NOTE:** The supplied INF file ensures compatibility with Windows operating systems, and the ICM file (Image Color Matching) ensures accurate on-screen colors. ViewSonic® recommends that you install both files.

## Precautions

- 
- For best viewing conditions sit at least 18” from the monitor.
  - **AVOID TOUCHING THE SCREEN WITH YOUR FINGERS.** Oils from the skin are difficult to remove.
  - **NEVER REMOVE THE REAR COVER.** The monitor contains high-voltage parts. You may suffer serious injury if you touch these parts.
  - Avoid exposing the monitor to direct sunlight or another heat source. The monitor should be facing away from direct sunlight to reduce glare.
  - Do not place your monitor near a source of water or moisture.
  - Place your monitor in a well ventilated area. Do not place anything on the monitor that blocks the ventilation slots or prevents adequate dissipation of heat.
  - Do not place heavy objects on the monitor, video cable, or power cord.
  - If smoke, abnormal noise, or strange odor is present, immediately switch the monitor off and call your dealer or ViewSonic. It is dangerous to operate your monitor under these conditions.
  - Keep the monitor away from magnets, motors, transformers and televisions.
-

# Quick Installation

## 1 Connect video cable(s)

Make sure both the monitor and computer are powered OFF.

The monitor can be connected to one or two computers using either the DB-15 video cable (included) or a BNC video cable (purchased separately). To toggle between two computers: connect the DB-15 video cable to the monitor and first computer, and then connect the BNC video cable to the monitor and the second computer.

*Macintosh users:* Models older than G3 require a ViewSonic Macintosh adapter. Attach the adapter to the computer and plug the video cable into the adapter.

To order a ViewSonic® Macintosh adapter, contact ViewSonic. See *Customer Support* in this user guide.

## 2 Connect power cord

Connect the power cord from the monitor to a properly grounded AC outlet.

## 3 Power-ON monitor and computer

Power-ON the monitor, then power-ON the computer. This sequence (monitor before computer) is very important.

**NOTE:** At this point Windows 98 users may receive a message asking them to install the P95f INF file.

## 4 Install Display Optimization files

(1) Insert the ViewSonic wizard CD-ROM into your computer's CD-ROM drive.

**NOTE:** if your computer does not have a CD-ROM drive, see the Customer Support section of this user guide.

(2) Wait for the CD-ROM to auto-start.

**NOTE:** if the CD-ROM does not auto-start: double-click on the CD-ROM icon in Windows Explorer, then double-click on **Install.exe**.

(3) Follow the on-screen instructions.

## 5 Windows users: Set the Timing

Mode (resolution and refresh rate)

*Example:* 1600 X 1200 @ 85 Hz.

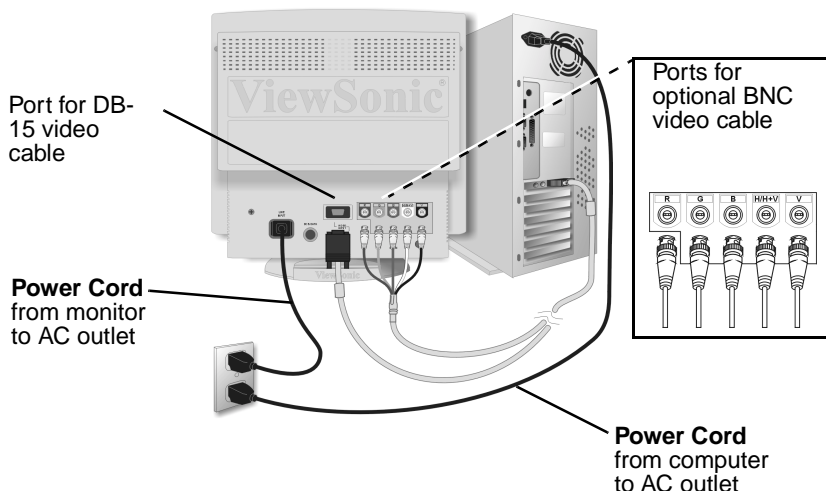
For instructions on changing the resolution and refresh rate, see the user guide for your computer's graphics card.

**Installation is complete. Enjoy your new P95f monitor!**

To be best prepared for any future customer service needs:

Write the serial number (see back of the monitor) in "For your Records" on page 1 of this guide.

Register the warranty of your monitor on the Internet at: [www.viewsonic.com](http://www.viewsonic.com)



# Using the Monitor

## Setting the Timing Mode

Setting the timing mode is important for maximizing the quality of the screen image and minimizing eye strain. The **timing mode** consists of the **resolution** (example 1280 x 1024) and **refresh rate** (or vertical frequency; example 75 Hz). After setting the timing mode, use the OnView® controls to adjust the screen image.

The recommended timing modes for this monitor are:

**VESA 1280 x 1024 @ 85 Hz.**

To set the Timing Mode:

- 1 **Set the resolution:** Right-click on the Windows® desktop > **Properties** > **Settings** > Desktop Area (Screen Area for Windows 95 and newer) > set the resolution.
- 2 **Set the refresh rate:** See your graphic card's user guide for instructions.

**NOTE:** To minimize the adjustments required for an optimal screen **image**, select a timing mode from the **Preset Timing Modes** table below.

### Preset Timing Modes

VGA 640 x 400 @ 70 Hz	VESA 1280 x 1024 @ 85 Hz
VESA 800 x 600 @ 75 Hz	VESA 1600 x 1200 @ 75 Hz
VESA 800 x 600 @ 85 Hz	VESA 1600 x 1200 @ 85 Hz
VESA 1024 x 768 @ 75 Hz	VESA 1920 x 1440 @ 75 Hz
VESA 1024 x 768 @ 85 Hz	Macintosh 1024 x 768 @ 75 Hz
VESA 1280 x 1024 @ 75 Hz	Macintosh 1152 x 870 @ 75 Hz

**WARNING:** Do NOT set the graphics card in your computer to exceed the maximum refresh rate; doing so may result in permanent damage to your monitor.

### Timing Modes with Maximum Refresh Rates

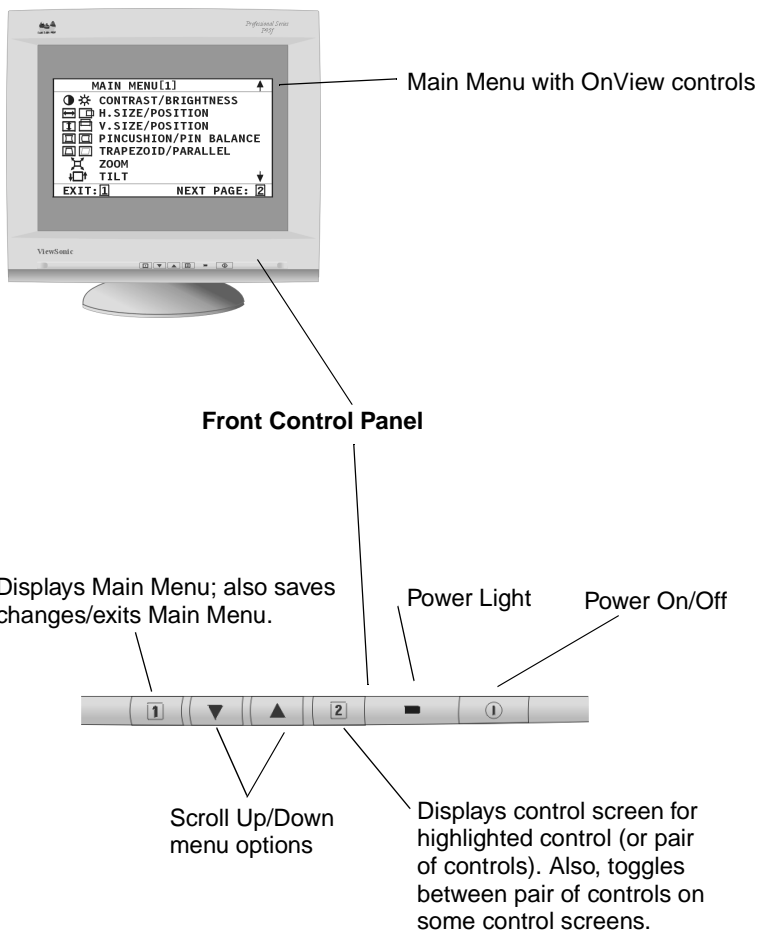
1920 x 1440 NI @ 77 Hz	1152 x 864 NI @ 125 Hz
1856 x 1392 NI @ 80 Hz	1024 x 768 NI @ 140 Hz
1792 x 1344 NI @ 83 Hz	800 x 600 NI @ 175 Hz
1600 x 1200 NI @ 92 Hz	640 x 480 NI @ 180 Hz
1280 x 1024 NI @ 107 Hz	

(NI = Non Interlaced)

# Adjusting the Screen Image

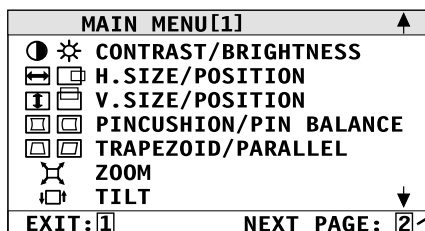
Beginning with the Main Menu shown below, use the buttons on the front control panel to adjust the OnView® controls which display on the screen. The OnView controls are explained in the four steps at the top of the next page and are further explained on pages 8-10.

**IMPORTANT:** The monitor should be warmed up for 30 minutes prior to making any adjustments.

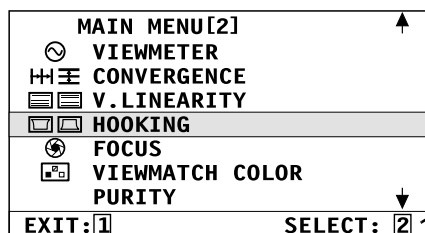


## To adjust the screen image:

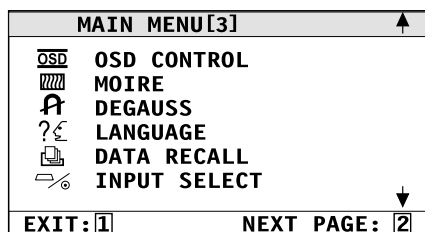
- 1 To display the Main Menu (parts 1-3 shown below), press button [1].



With Main Menu [1] highlighted, button [2] displays Main Menu [2].



With a control highlighted, button [2] displays a control screen for making adjustments.



- 2 To select a control you want to adjust, press the arrow buttons on the front control panel of your monitor (▼▲) and scroll through the choices. When the control you want to adjust is highlighted, press button [2].







**NOTE:** Some controls on the Main Menu are listed in pairs, such as Contrast/Brightness. Press button [2] to toggle between control pairs after displaying a control screen.










- 3 To adjust the selected control, press the arrow buttons (▼▲).
- 4 To save the control setting and Exit the menu, press button [1] *twice*.



## Main Menu Controls

The menu items shown below can be adjusted by using the arrow buttons (▲▼) on the front of your monitor.

Control	Explanation
	<b>Contrast</b> adjusts the difference between the image background (black level) and the foreground (white level). <i>Shortcut:</i> Before displaying the Main Menu, press ▼ or ▲ to display the Contrast/Brightness control screen.
	<b>Brightness</b> adjusts the background black level of the screen image.
	<b>Horizontal Size</b> adjusts the width of the screen image.
	<b>Horizontal Position</b> moves the screen image left or right.
	<b>Vertical Size</b> adjusts the height of the screen image.
	<b>Vertical Position</b> moves the screen image up or down.

Control	Explanation (Continued)
	<b>H. Convergence</b> (Horizontal Convergence) adjusts vertical color alignment. Use this control when red or blue borders are present around the vertical segments of black letters on a white background.
	<b>V. Convergence</b> (Vertical Convergence) adjusts horizontal color alignment. Use this control when red or blue borders are present around the horizontal segments of black letters on a white background.
	<b>V. Linear</b> (Vertical Linearity Center) adjusts the vertical distortion at the center of the screen image. <b>NOTE:</b> Vertical Linearity Center is an advanced control and should be used for setup and calibration only.
	<b>V. Linear Sym</b> (Vertical Linearity Symmetry) minimizes the distortion (squeezing or stretching) images between the top and bottom of the screen image. <b>NOTE:</b> Vertical Linearity Symmetry is an advanced control and should be used for setup and calibration only.
	<b>Top Hooking</b> straightens the top corners of the screen image.
	<b>Bottom Hooking</b> straightens the bottom corners of the screen image.
	<b>H Focus</b> (Horizontal Focus) adjusts the sharpness of the screen image in the horizontal direction.
	<b>V Focus</b> (Vertical Focus) adjusts the sharpness of the screen image in the vertical direction.
	<b>ViewMatch® Color</b> provides several color options: three preset color temperatures and User Color, which allows you to adjust red (R), green (G), and blue (B). The factory setting for this product is 9300K (9300 Kelvin). <b>9300K</b> — Adds blue to the screen image for cooler white (often used in office settings with fluorescent lighting). <b>6500K</b> — Adds red to the screen image for warmer white and richer red. <b>5000K</b> — Adds blue and green to the screen image. <b>User Color</b> — Individual adjustments for red, green, and blue.





# Troubleshooting

## No power

- Make sure power button (or switch) is ON.
- Make sure A/C power cord is securely connected to the back of the monitor and to a power outlet.
- Plug another electrical device (like a radio) into the power outlet to verify that the outlet is supplying proper voltage.

## Power on but no screen image

- Make sure the video cable supplied with the monitor is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the monitor, tightly secure it to the monitor.
- Adjust brightness and contrast.
- Verify whether an adapter is required for proper signal continuity between graphics card and monitor.

## Flickering

- Not enough power supplied. Connect the monitor to a different outlet. If using a surge protector, reduce the number of devices plugged in.
- Check the ViewMeter®

# Customer Support

For the most expedient answer to your question, do the following:

- 1 Check Troubleshooting (on the previous page).
- 2 For assistance contact your reseller.
- 3 For further assistance see the contact information listed below.

Ask your reseller to refer you to a service center if contact information for your country or region is not listed below:

**NOTE:** You need to provide the serial number (on the back of the product).

Country/Region	T = Telephone F = FAX	Email
United States	T: (800) 688-6688 F: (909) 468-1202	vstech@viewsonic.com
Canada	T: (800) 688-6688 F: (909) 468-1202	vstech@viewsonic.com
United Kingdom	T: 0800 833 648 F: 0044 (0)1293 643910	-----
Europe, Middle East, Baltic countries, and North Africa	T: 0044 (0)1293 643900 F: 0044 (0)1293 643910	-----
Australia	(contact reseller)	-----
New Zealand	T: 64-3-366-1135 F: 64-3-366-7006	mbarlass@vistech.co.nz
Singapore/Southeast Asia	T: 65-273-4018 F: 65-273-1566	viewsonicspore@pacific.net.sg
Other Asia/Pacific countries and Indian Peninsula	T: 886-2-2248-4072 F: 886-2-2240-8238	vsi@viewsonic.com.tw
South Africa	T: 27-11-314-0002 F: 27-11-314-0002	atscom@mweb.co.za

## Cleaning the Monitor

- MAKE SURE THE MONITOR IS TURNED OFF.
- NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE

# Limited Warranty

## VIEWSONIC MONITORS

### **What the warranty covers:**

**ViewSonic®** warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, **ViewSonic** will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

### **How long the warranty is effective:**

**ViewSonic**



# Appendix

## Power Cord Safety Guidelines

**CAUTION:** Use a power cable that is properly grounded. Always use the AC cords listed for each country. In other areas, use an AC cord which meets local safety standards.

USA..... UL	Switzerland ..... SEV
Canada..... CSA	Britain ..... BASE/BS
Germany..... VDE	Japan ..... Electric Appliance Control Act

### AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

**WARNING: THIS APPLIANCE MUST BE EARTHED.**

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow: Earth  
Blue: Neutral  
Brown: Live

If the coloured wires of the mains lead of this appliance do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

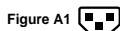
The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

### IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord set for this unit has been enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed.

The female receptacle of the cord set must meet CEE-22 requirements and will look like (Figure A1 below):



### For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For units which are mounted on a desk or table, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult the table below for the selection criteria for power cords used in the United States and Canada.



Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG	10 Amps
	16 AWG	12 Amps
	14 AWG	12 Amps
SVT	18 AWG	10 Amps
	17 AWG	12 Amps

### For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you have purchased the product

# FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Warning**

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

## **Notice for Germany**

The x-rays generated in this unit are shielded sufficiently. High voltage: Max. 30 kV. Also, for ergonomic reasons, we recommend that you do not display blue characters on a dark background. Doing so may produce insufficient contrast that could lead to eye strain.

## **Notice for Japan**

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

## **CE Conformity**



The device complies with the requirements of the EEC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility," and 73/23/EEC as amended by 93/68/EEC Art.13 with regard to "Safety."



6/2000

**ViewSonic® Corporation**  
381 Brea Canyon Road  
Walnut, CA 91789  
Tel (909) 869-7976  
Tel (800) 688-6688  
Fax (909) 468-1202